

CLAIMS

WHAT IS CLAIMED IS:

1. A multi-round filter housing, comprising:

a dome; and

an integrated base assembly, wherein said base assembly comprises an integral cartridge plate with an upper face.

2. The multi-round filter housing of Claim 1, wherein the upper face of said cartridge plate is recessed toward an outlet manifold.

3. The multi-round filter housing of Claim 2, wherein said recession is in the shape of a frustoconical indentation.

4. The multi-round filter housing of Claim 1, wherein said base assembly further comprises:

a plurality of cartridge filter bores having a lower portion;

an inlet manifold; and

an outlet manifold.

5. The multi-round filter housing of Claim 4, wherein the upper face of said cartridge plate is recessed toward said outlet manifold.

6. The multi-round filter housing of Claim 5, further comprising:

a channel in said upper face of the cartridge plate, wherein said channel feeds into said inlet manifold.

7. The filter housing of Claim 4, further comprising:

a plurality of sloped bores connecting the lower portion of the plurality of cartridge filter bores with the outlet manifold.

8. The filter housing of Claim 7, wherein said outlet manifold is at the center of the cartridge plate.

9. The filter housing of Claim 1, wherein said dome comprises a vertical access port through the upper portion of the dome.

10. The filter housing of Claim 4, wherein said plurality of cartridge filter bores matingly accept cartridge filters.

11. The filter housing of Claim 4, including only one gasket-style seal between said dome and said base assembly.

12. The filter housing of Claim 11, wherein said gasket-style seal is an O-ring.

13. The filter housing of Claim 4, wherein said cartridge plate, said cartridge filter bores, said inlet manifold; said outlet manifold; and said dome contain surfaces which do not include a substantially horizontal surface.

14. A multi-round filter housing cleaning system, comprising:

a filter housing dome including a vertical access port through the top of said dome;

an integrated base including an integral cartridge plate; and

a cleaning wand, wherein said cleaning wand is adapted to be inserted through the vertical access port in the top of said dome and is further adapted to be inserted through a bore in said cartridge plate.

15. The system of Claim 14, wherein said cleaning wand includes a plurality of spray devices.

16. The system of Claim 15, wherein said spray devices are designed to disperse a cleaner onto each interior surface of the multi-round filter housing.

17. A method for cleaning the interior of a filter housing, comprising the steps of:

sealing a dome and a base assembly of said filter housing together;

inserting a cleaning assembly through a vertical access port in said dome; and

inserting said cleaning assembly through a bore in said base assembly.

18. The method of Claim 17, wherein said sealing step includes using only one gasket-type seal.

19. The method of Claim 17, further including the step of:

spraying the interior of said filter housing with a cleaning fluid.

20. The method of Claim 19, wherein said cleaning fluid is selected from the group consisting of water, deionized water, steam, detergent, an acidic cleaning media, and a cleaning agent.